

Value Chain Management

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Peels to feed value chain

Cassava root peel emerging as an important raw material for animal feed manufacturing industry. Cassava root peel constitutes 5% to 15% of the tuber weight and is a rich source of energy and nutritional elements.

Peels are converted into cake after a series of mechanical process and sold as different products for (fish, poultry, large and small ruminants) (Fig 1). Nigerian generates ~10 to 14 million t of peels annually as a by-product of the household and industrial processing of roots for gray and starch.

The new innovation in peel processing reduced drying of cassava peels from 3 to 1 day making peel manufacturing attractive income generation option for farmers and processors.

ICT tool to bridge peel-to-feed value chain

- Efficient peel to feed conversion requires mobilization of fresh peels for processing in a day to avoid fermentation and spoilage. Information about the availability and quality of peels almost on daily basis is an important attribute for aggregators and buyers of processing industry.
- The word-of-mouth model is being used through formal and informal groups to relay information about peel availability status.
- To improve the communication along the peel-to-feed value chain, we developed **Cassava Peel Tracker (CPT)** web-app. The CPT is build on Seed Tracker™ platform.

Fig 1. Cassava Peel-to-Feed Value Chain



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CPT App Development and Features

- Developed using ODK and Enketo web Data collection forms
- MySQL database with SMS and e-mail alerts
- CPT is usable on Android phones and any Internet-enabled device for real-time communication of availability and quality of peels for sale.
- CPT aggregates information readily displays the quantity of product at various stage of value chain from fresh peel to dehydrated mash and compressed cake with geolocations.
- This app is simple to use and requires minimum data processing and data transfer cost. C
- PT enables real time communication and data necessary for burgeoning peel-to-feed manufacturing industry in Nigeria. The tool will be pilot tested in August

www.seedtracker.org/peeltracker (available in August-2018)

Welcome to on-line Cassava Peels Marketplace
Interactive platform for sellers and buyers of Cassava Peels

Profile Setup

You are required to fill this form only **once**, after your login details have been sent to you. This allows you to fill in your basic data which are name, gender, occupation, organization, location, email and phone number.

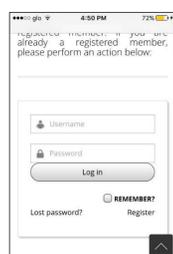
Update profile

Buy And Sell

For all registered and confirmed buyers and sellers, this form allows to specify quantity, date, offer and selling price per kilo of fresh or processed peels. The form is dynamically populated based on the input made on the user profile setup form

Buy or Sell

Functionalities
Registration of peel producer
Unique login for each producer
Geolocation of buyer or seller
Auto login based on the unique ID
Quantities available to sell or buy
Expression of interest to buy or seel
Geolocation based information on WebApp for ready identification and traceability
Database for quantities of peels producer and pee-flow along the value chain
Auto analytics



- User ID#**
- Location and address
 - Quantity of peel available
 - Date available
 - Contact